Section 6.3

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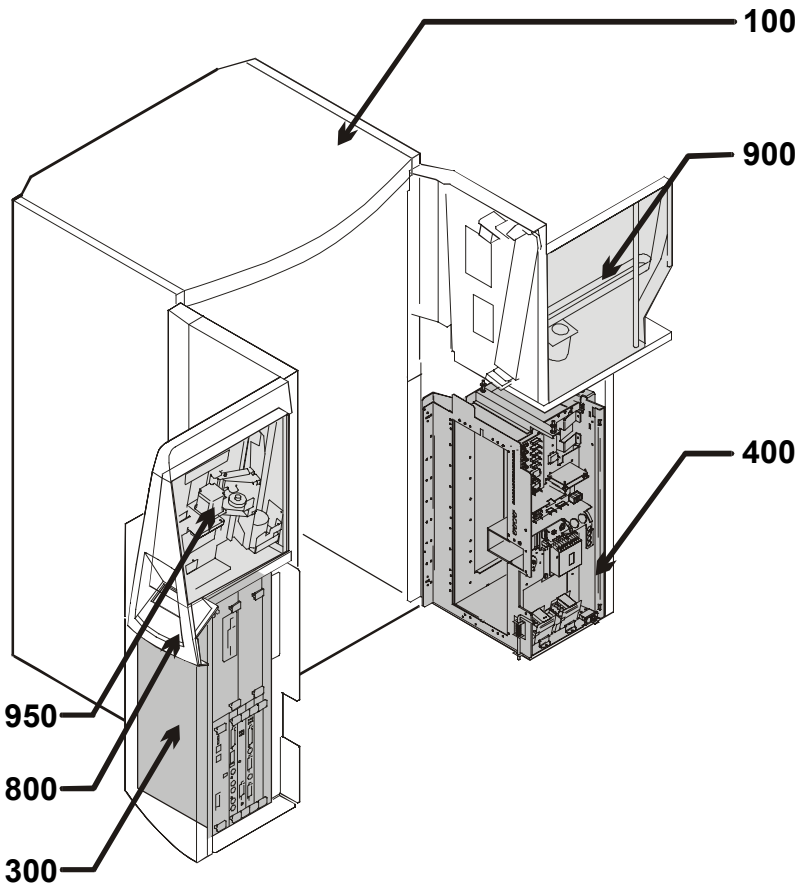
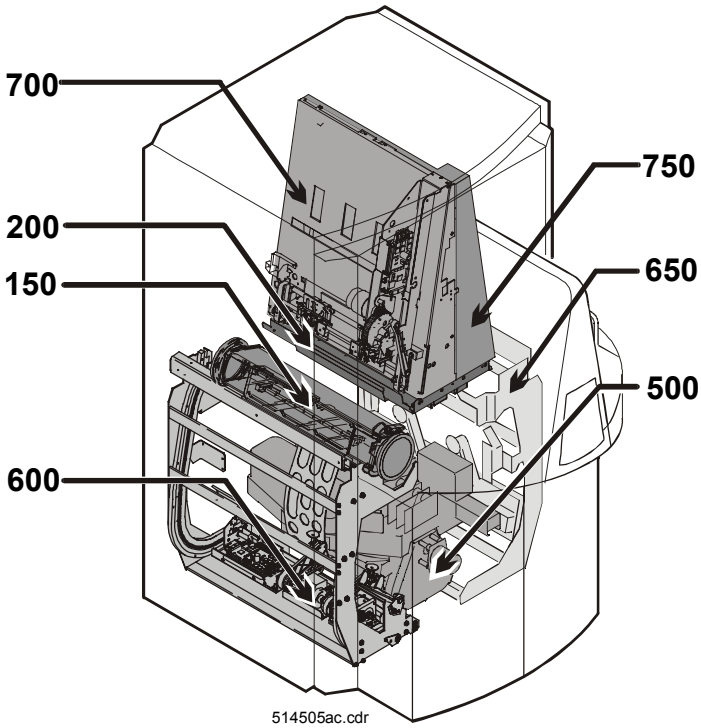
1 Units of the ADC Compact Digitizer (Overview)



950 Output Buffer
800 Left Door
300 VME-Rack

100 Frame
900 Input Buffer
400 Power Unit



700 Cassette Unit 1
200 Rotation Unit
150 Erasure Unit
600 IP- Transport Unit (left)

750 Cassette Unit 2
650 IP-Transport Unit (right)
500 Scan Unit

Figure 1

2 General

2.1 Short Circuit Risk with Sub-D Plugs (9, 11 and 25 pin plugs)

Problem

A short circuit in 9, 11 and 25 pin Sub-D plugs may be responsible for indefinable problems as for example I/O BUS errors, image artefacts or network transmission problems.

If any such problems occur, check all 9, 11 and 25 pin Sub D plugs first (see table below).

VME – Adapterboard	• I/O BUS
	• Ethernet
SCB/SAB Board	• LD-Control
Laser Diode Module	• Sub-D plug
Distributor Board	• I/O BUS

Figure 2

Reason

Wires of the ribbon cable (see spot) come into contact with the metal casing of the plug (see white arrow).

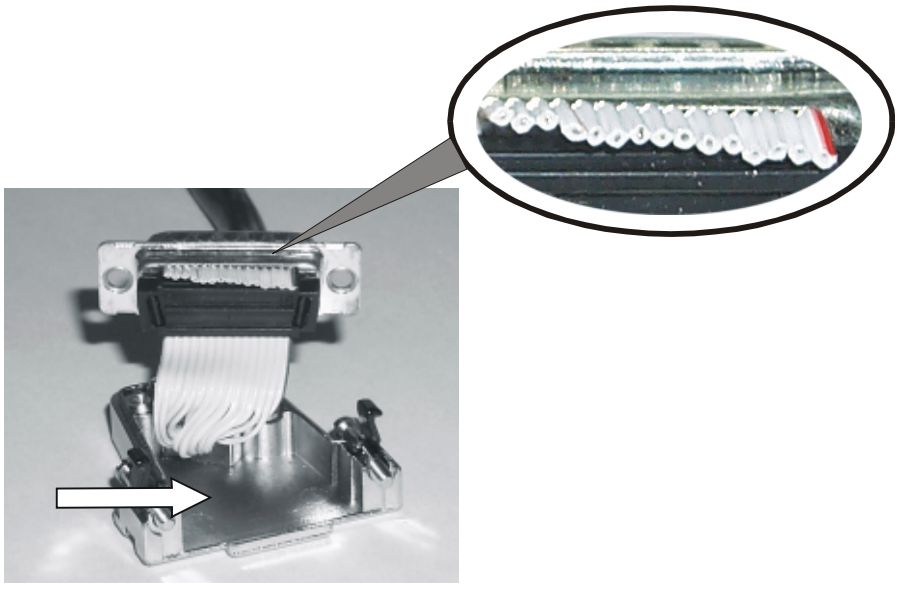


Figure 3

Workaround

Stick a piece of insulating tape to the part of the casing that may come into contact with the blank parts of the ribbon cable (see white arrow).

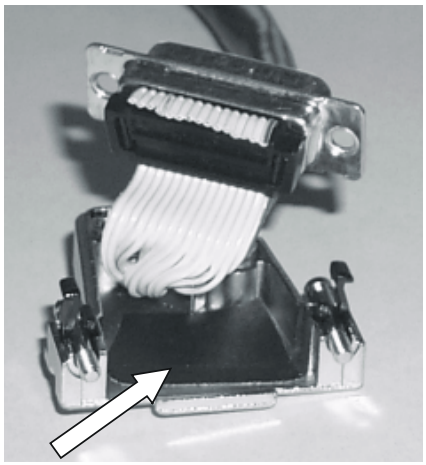


Figure 4

Solution

Modified plugs solving the problem are in use on digitizers with the following serial numbers:

ADC Compact:	Type 100	1388, ≥ 1390
	Type 140	≥ 5172

2.2 Bad Contact with black Jumpers

Problem

Jumpers with black caps may show inferior contact. This kind of jumpers can be found on any board.

Reason

Defect jumpers

Solution

Exchange the black jumpers if necessary, and use green ones instead.

(open at the top).

Order-Number: CM+7.0472.1380.0

3 Frame

3.1 Light leaks in the Digitizer

Problem

- neg. influence on the image quality
- SAL value after erasure < 90)

Reason

Light may leak in through the vents in the area of the fan of the Erasure Unit (right hand fan edge).

Solution

Loosen the fan screws, push the fan and the grid fully to the right and tighten the screws again, see

Figure 5.

We recommend to check the fan position during the next service call or maintenance and to correct it if necessary.

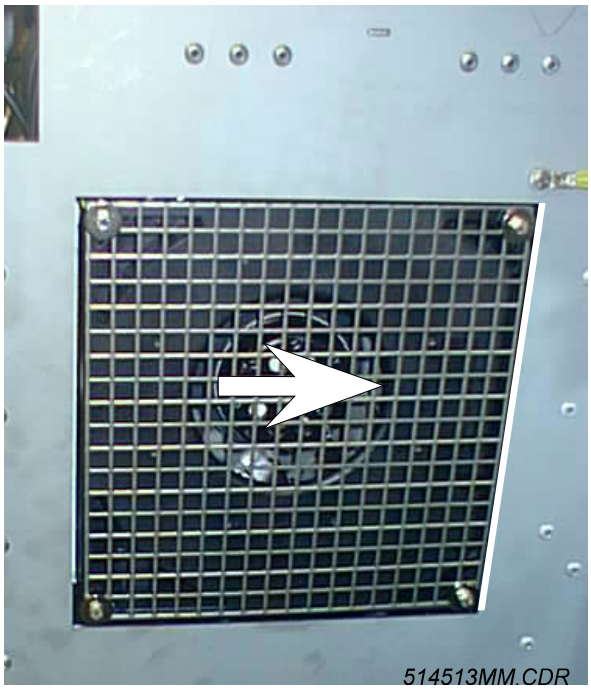


Figure 5

Standard modification:

5145/100: ≥ SN1101
5145/140: ≥ SN5050

4 Erasure Unit

4.1 Modified Temperature Switch in the Reflector of the Erasure Unit

Problem

The display of ADC Compact quite often shows the message

“COOLING DELAY – PLEASE WAIT”,

which is entered in the infocounter as error message 22D55. Processing of the image plate is delayed until the temperature has decreased and the display message has disappeared.

Reason

The message appears when the temperature switch reaches 75°C.

Solution

To reduce the number of "Cooling Delays" the temperature switch (75°C) has been replaced by a thermostat with a switching value of 85°C in machines as of SN 1428 (Type 100) and 5180 (Type 140) respectively.

Note

In machines as of SN $\leq$ 1427 (Type 100) / $\leq$ 5179 (Type 140) the complete assembly (reflector with temperature switch) has to be exchanged, when "cooling delay" message appears frequently.

Order-No.: reflector with temperature switch (85° C): CM+9.5145.3540.1

5 VME Rack

5.1 Problems occurring when the hard disk formatter floppy (boot floppy) is used

Problem

Improper use of the hard disk formatter floppy has caused some problems recently.

Make sure that the hard disk formatter floppy is only used in the way described below.

When to use the hard disk formatter floppy

You will only need the hard disk formatter floppy after the hard disk has been replaced.

The test images will be lost after the hard disk formatter floppy has been used. They can only be restored if you have saved them manually on PRID or on the workstation before having started this installation.

File them under: E:\testimg, E:\flatfld, E:\flatfld2, E:\tsheet

Correct Usage of the hard disk formatter floppy

1. Insert the hard disk formatter floppy in the floppy drive of the VME rack (or Service-PC).
2. Make a reset and watch the LED (= boot from A:)
3. Insert the first “release disk” → reset
4. Insert the subsequent “release disks” in the required sequence → reset after each disk
5. After the last disk has been loaded make a reset once again
6. The system boots, loading the default setting
7. Restore the backup containing the machine specific data:

   <install from floppy>

   <machine specific data>

The backup contains the configuration files which were valid before the current software installation took place. It has to correspond with the just loaded software. **To prevent the system from crashing, do never install a new backup (new software version) on older software-versions.**

8. Reset !

If you have no network connection now, an old configuration setting has been loaded: load the current ones via cpf. – file.

If there is an additional patch you want to install, it is not to be loaded until you have finished the reset of point 8.

How to install a patch

Call up the service menu

Select: <install from floppy>

<software>

Confirm with OK

Message: “new software detected”

Create a new backup and label it with:

Serial number
SW – version
Date

5.2 No Test Image after use of the Hard Disk Formatter Floppy

Problem

Error message (21477)

Reason

The hard disk formatter floppy formats the hard disk and creates the partitions C, D, and E. Since the test image has about 9 MB, it's not part of the software. Neither can it be saved on floppy. Send test image will result in an error message (21477).

Solution

Order CD-ROM with test images: Order-No CM+9.5145.1005.0.

5.3 Low Network Transmission Speed due to BER1PCB (Revision A) Board

Problem

Low Network Transmission Speed due to BER1PCB (Revision A

Solution

Replacement of the BER1 PCB Revision A by a BER1 PCB Revision B Retrofitting is necessary in all digitizers which are integrated in a network and use a BER1 PCB Revision A.

The BER1 PCB on the CPU assembly has been modified into revision B, in order to prevent transmission problems in case of the connection to a fast Ethernet via a switching hub (10Mbit/s to 100Mbit/s).

Part no. (old):	CM+9.5145.1425.1	BER1 PCB Revision A
Part no. (new):	**CM+9.5145.1425.2**	**BER1 PCB Revision B**

5.4 Lost Test Images

Problem

Loss of test images

Reason

- Replacement of HDD
- Usage of hard disk formatter floppy

Solution

Install test images from “Test Images CD ROM”

Order-No.: CD-ROM Test Images CM+9.5145.1055.0

The CD-ROM is only necessary when the test images have been lost, e.g. when the hard disk has been replaced or when the hard disk formatter floppy has been used.

5.5 Digitizer Software COP_1215 and Patch COPA1215

Problems

- there have been some sporadic network problems resulting in a display message "VIPS not ready" on units with software COP_1215.
- after the galvanometer has been replaced, calibration of a 35cm x 43cm HR format is no longer possible.

Solution

- software patch COPA1215 solves these problems. It requires the **basic software COP_1215** and must not be installed on earlier SW versions.

Order – Number COP_1215 + COPA1215: **CM+9.5145.1050.3**

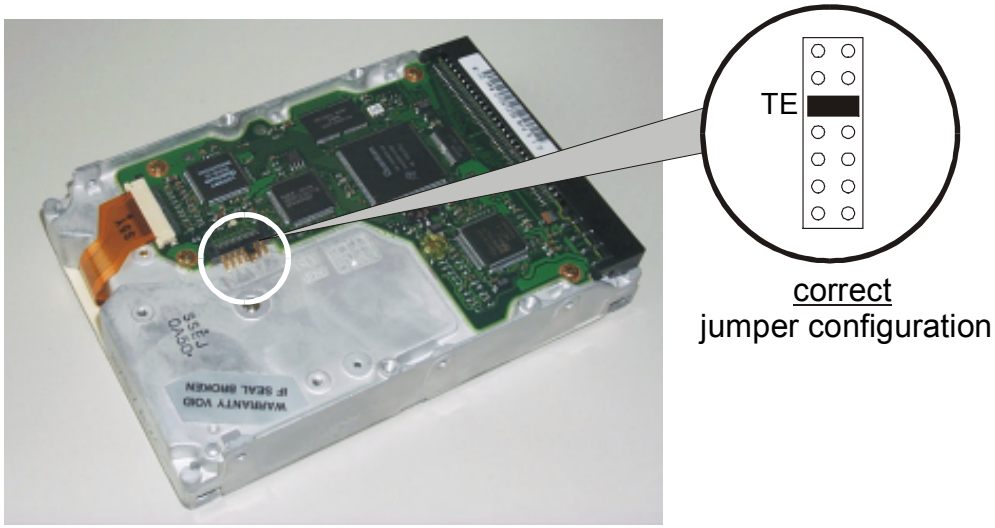
Both can also be downloaded from Diginet.

5.6 Jumper Configuration of (GS310) VME-Hard disk ADCC/ADCS

Before installing a new hard disk CM+7.0486.1260.0 after a hard disk crash, check if the jumper configuration of the new HDD is correct.

Due to production reasons the jumper configuration of the hard disks may vary.

The correct jumper configuration is shown in the figure below.



6 Power Unit

6.1 Rattling Noise around the Pump Unit

Problem

The pump unit generates rattling noise.

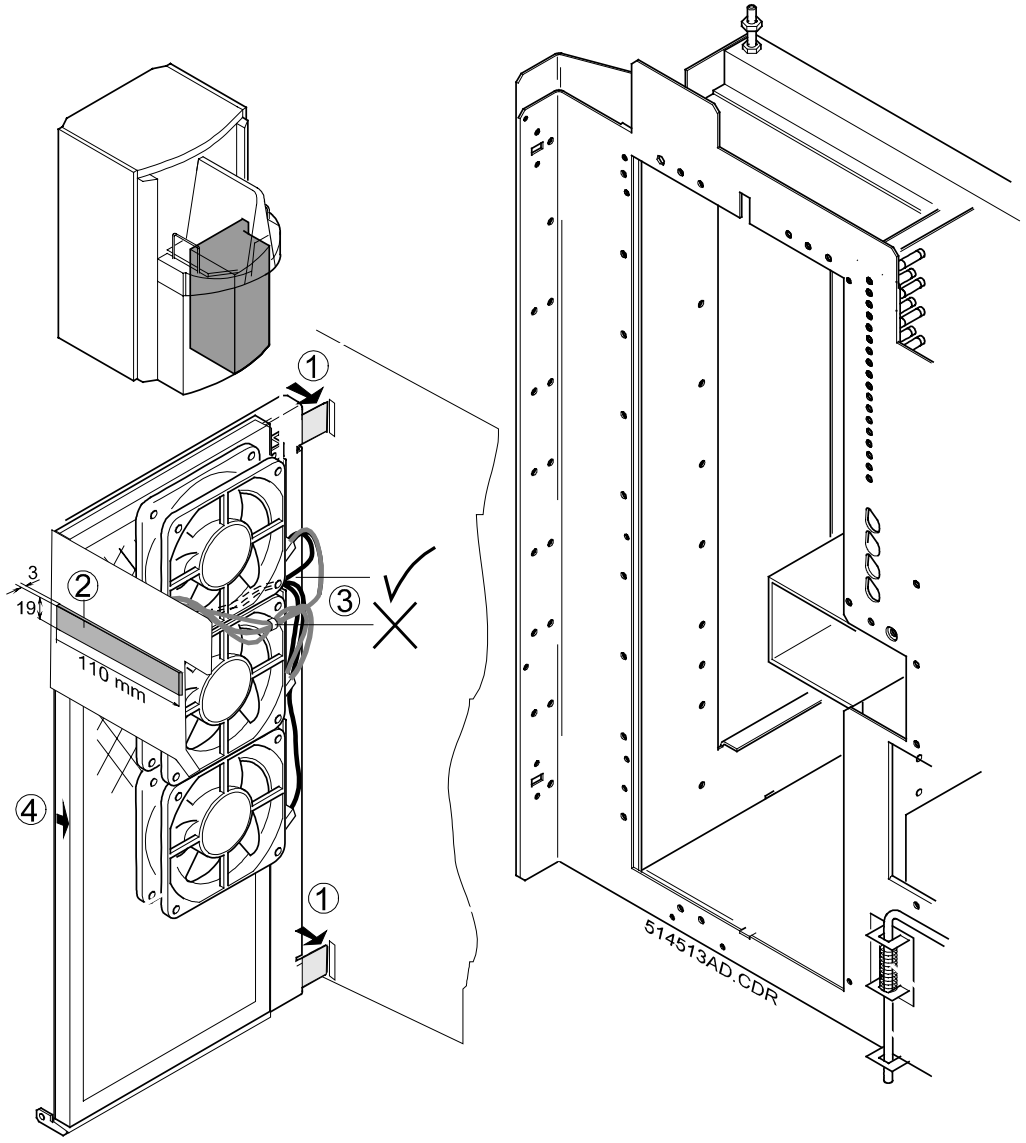


Figure 6

Reason

Vibrations at the lug / door slots

Solution

Bend the lugs slightly (approx. 6°) see Figure 6 / 1.

Thus the lugs clamp in the slots when the pump bracket screws are tightened.

☞ Standard modification as of SN 1067 / 5024

Reason

Cover plate touches the pump bracket

Solution

Attach a foam rubber strip (approx. 19 x 3 x 110 mm) at the pump bracket, see Figure 6 / 2.

Standard modification as of SN 1067 / 5024

Reason

Fan wiring rubs against the fans

Solution

Place the wires between the two fans, see Figure 6 / 3.

Standard modification as of SN 1072 / 5026

Reason

Pump wiring rubs against the fans

Solution

Fix the connection cable of the pump with the first clamp, already present, see

Figure 7.

☞ Standard modification as of SN 1058 / 5018

- Observe the correct positioning when inserting the fan filter, see arrow marks, Figure 6 / 4.

- Upon connection of the vacuum hoses follow the correct sequence!

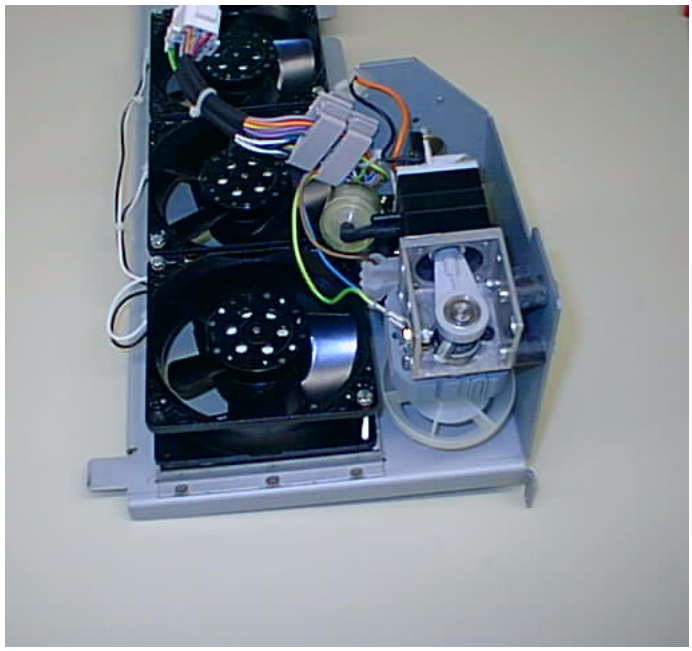
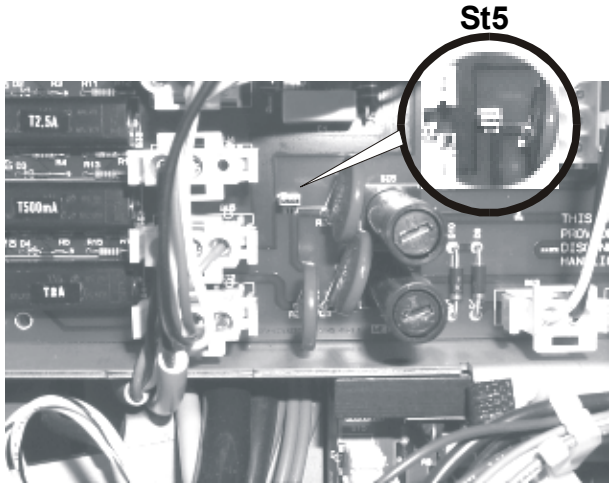


Figure 7

6.2 Unremoved Jumper on St5 of the Power Unit

To avoid problems when ADC Compact is being used with IT - ✳ mains remove the jumper on St5 of the Power Unit.

If this jumper is not removed, the varistors may possibly be destroyed.



St5 on GS410
(Line Power Connection)

Figure 8

7 Scan Unit

7.1 No Laser Power

Problem

- Error message 20506
- no laser power although the laser beam is visible at the fiber optic monitoring device.

Reason

loose plug connection of the pin diode cable (see Figure 9 / A)

Solution

Secure the connection with adhesive tape.

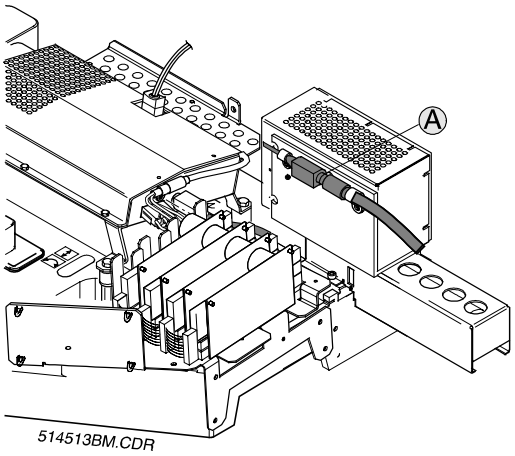


Figure 9

7.2 Lubricated Ball Bearing introduced for Galvo

Problem

Early wear of the galvo.

Reason

Insufficient lubrication of the ball bearing of the galvo.

Solution

Installation of a modified galvo with a lubricated ball bearing CM+9.5145.2040.1
(including installation instructions for ADC Compact and ADC Solo).

It is recommended to remove the galvo only, if the limiting values of the galvo monitoring in the infocounter are exceeded as shown in the example below.

offset: >30

amplitude counts: >60

```
4.7 Galvanometer Monitoring
Maximum peak-to-peak offset counts: 30, amplitude counts: 60
Date            Time          Cycles    Offset      Amplitude
12-Sept-1999    11:29:15           3        37             62
```

After the removal of the galvo, you have to adjust the laserbeam as described in the installation instructions.

It is possible that the adjustment screws of the galvo are defective, so it is advisable to hold a galvomount CM+9.5145.2910.2 on stock.

After the adjustment procedure you have to calibrate all formats.

See section 12 of your technical documentation ADC Solo.

See section 6.6 of your technical documentation ADC Compact.

ADC Compact:
To avoid calibration problems with format 35X34 cm HR, it is compulsory to load COP**A**1215.

Defect Label

Fill in the form and send it together with the defect galvo to:

AGFA Munich

Retourenstelle

Tegernseer Landstr. 161

81536 Munich

7.3 Modified Postscan Bar

Order number: **CM+9.5145.2410.1**

Problem

The rear suction arm touches the postscan bar when passing the opening (see circles). The correct suction position is not reached.

Possibly appearing Error - Codes:

22D60, 22D61, 22481,22B85, 22BA2, 22BA7

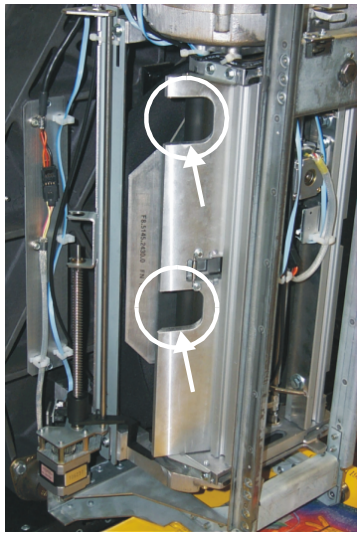
Reason

Variations in the production.

Solution

Installation of a modified postscan bar with a broader opening for the suction arms (see image beside).

For the installation of the postscan bar please refer to DD+DIS185.99E which comes with the spare part.



Postscan bar

Figure 10

7.4 Calibration Problems after Galvo Replacement

Problem

After the galvanometer has been replaced, calibration of a 35cm x 43cm HR format is no longer possible.

Reason

Responsible is a small angular shift of the rotating shutter blade on the motor axis

Workaround

For the moment (software COP_1215 or below), we give the following advice:

- If a galvo replacement is necessary, use the following procedure:
  1. Make a backup of the machine specific data (only for safety).
  2. Replace the galvo.
  3. Establish a terminal connection to ADC Compact and call "type d:fipxxx00.a00". Write down the 4 occurrences of **off_cnt**. (Take care of the sequence!)
  4. Install the galvo floppy, using the service menu of the ADC user terminal.
  5. Load d:fipxxx00.a00 from ADC to a PC or SUN and edit it with an ASCII editor (e.g. notepad). For loading, you can use ftp or you can copy the file to an empty floppy. Replace the 4 values of off_cnt by the old ones. Take care, not to add or remove any other character or line feed.
  6. Restore the modified fipxxx00.a00 to the ADC Compact and reset the machine.
  7. Calibrate.
  8. If everything was ok, make a backup of the machine specific data.

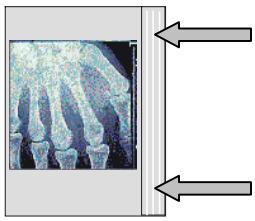
From Cop13xx on the fip-parameters will no longer be overwritten when the galvo floppy is loaded.

In case the original fip-parameters (factory backup) are lost, the GSC can provide them.

7.5 Modified IP – Alignments due to Alignment Problems

CM+9.5145.2080.0	Prescan Alignment Unit
CM+9.5145.2085.0	Postscan Alignment Unit

Do only exchange the Pre-/Postscan alignment, if the problems occur frequently.



Problem

The IPs are not aligned properly; the image shows stripes at its edges (see arrows).

Possibly appearing error codes

22D61	the IP jams in the scan unit and cannot be taken over by the IP transport.
229AC	the alignment cannot reach its home position during standard operation mode.
22988	the alignment cannot reach its home position when initializing.

Reason

Prescan alignment error

Solution

Exchange of the prescan alignment unit

As a result the rotary direction of the stepper motor has to be changed, which requires a new software (COP_1215).

Min. Software release COP_1215 (CM+9.5145.1050.3) **must** be loaded on the digitizer.
Before you start the modification, check if COP_1215 or higher is loaded. Upgrade the digitizer if necessary.

Possibly the IP – alignment has to be adjusted after the installation has been completed.

Problem

The IPs are not aligned properly and are clamped when the cassette is closed.

Possibly appearing error codes

22D60	the incompletely closed cassette can not be taken to the output buffer.
22D61	when 18" x 24" IPs are aligned improperly, the front suction cup is covered only partly and the IP cannot be sucked.
22481	the cassette opening drive cannot reach its home position.
2296D	the alignment cannot reach its home position during standard operation mode.

22999 the alignment cannot reach its home position during standard operation mode.

2298A the alignment cannot reach its home position when initializing.

Reason

Postscan alignment error

Solution

Exchange of the postscan alignment unit

As a result the rotary direction of the stepper motor has to be changed, which requires a new software (COP_1215).

Software release COP_1215 (CM+9.5145.1050.3) **must** be loaded on the digitizer. Before you start the modification, check if COP_1215 or higher is loaded. Upgrade the digitizer if necessary.

Possibly the IP – alignment has to be adjusted after the installation has been completed.

7.6 Modified Front Rubber Buffer between Rail and Scanner

Problem

Damaged image plates

Reason

The front rubber buffer (see arrow) between rail and scanner may break down, whereupon the front part of the scanner lowers, the rollers are no longer parallel.

The front rubber buffer is too weak to stand the weight.

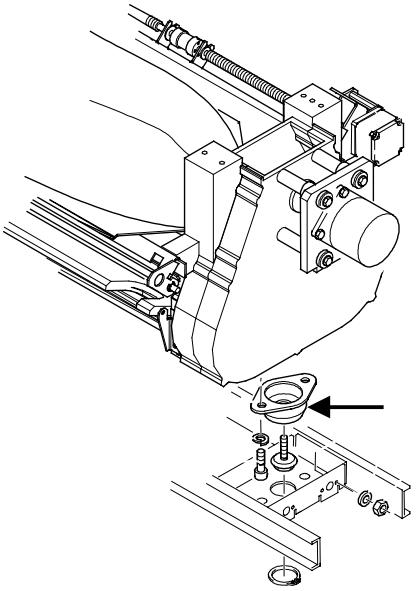


Figure 11

Solution

The front rubber buffer has been replaced by a new one having the same shape and dimensions but a harder rubber mixture (30 kg).

The new rubber buffer is in use in the following machines:

Type 100: SN 1371, 1373, **≥ 1401**

Type 140: SN: 5127, 5128, 5135, 5136, 5137, 5138, 5140, 5143, 5148, 5149, 5152, 5153, 5155, 5156, 5157, 5158, 5176, , **≥ 5178**

For machines with an earlier SN the modified front rubber buffer can be ordered under the order number:

CM+9.0371.5034.0

Note

If the front rubber buffer has to be exchanged on machines with earlier SN, do exchange only the one in the front of the scanner.

The two rubber buffers in the rear part of the scanner are unlikely to become defective.

Do not exchange the two rubber buffers there, because the new material is too hard to be used in that part of the machine!

8 IP-Transport Units

8.1 Preventive Action to avoid Transport Jams

Problem

Transport failure

Reason

Early wear of transport units

We noticed that after approximately 200 000 plate cycles the set screws on the toothed belt pulleys may loosen and fall out.

Solution

Secure the set screw of the 4 toothed belt pulleys (2 x IP-transport unit left, 2 x IP-transport unit right) with screw lacquer e.g. LOCTITE 243. This may be carried out during the next maintenance call.

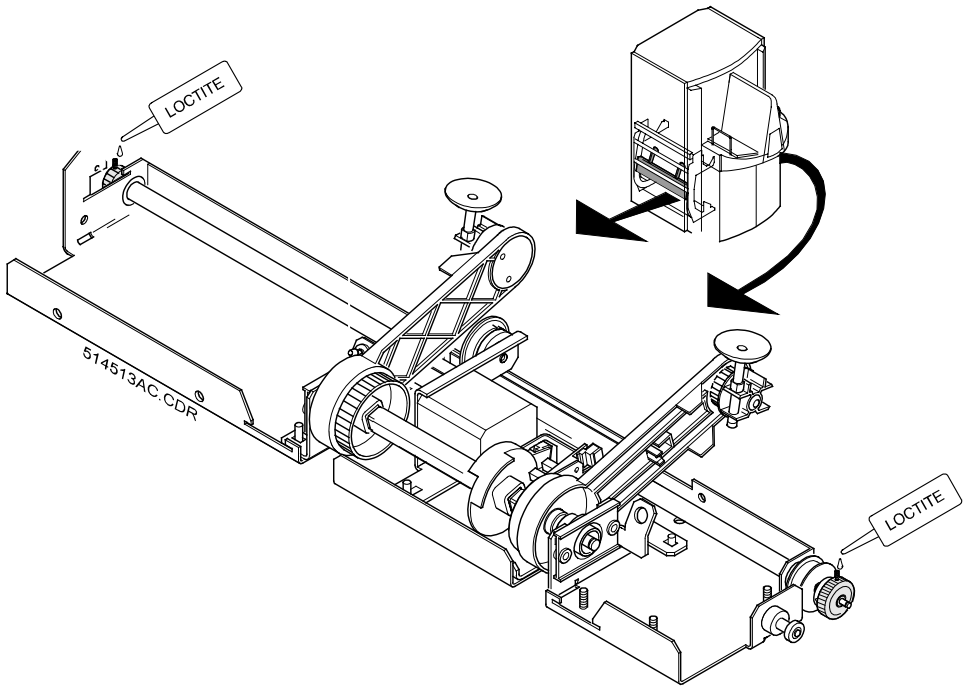


Figure 12

- Pull the IP-transport units out.
- Undo the set screws (4x, screwdriver 1.5 mm)
  - ☞ There is some red marking lacquer on the set screws, however, this has no holding function.
- Put a droplet of screw securing lacquer onto the thread of the set screw.
- Tighten the screw again.
- Allow for the lacquer to dry according to the glue instructions.

☞ Standard modification as of SN 1062 / 5022

8.2 Suction cups touch the cassette cover - the IP cannot be removed

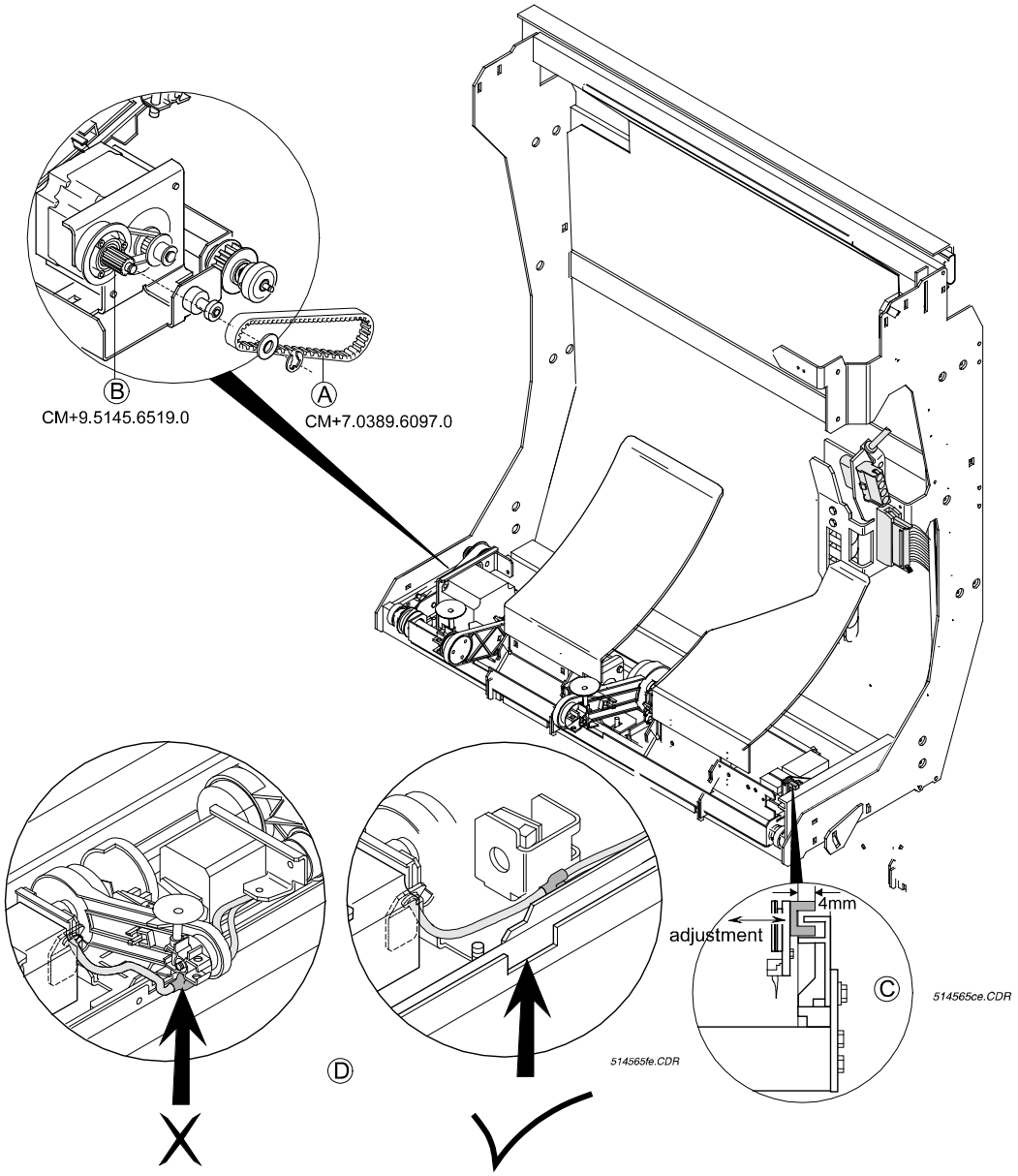


Figure 13

Problem

Error message: 22A72, 22D40

Reason

Stretched toothed belt in the IP transport unit right hand side, see Figure 13 / A

Solution

- Replace the toothed belt see Figure 13 / A.
- Replace the damaged gear, see Figure 13 / B.

8.3 The IP cannot be correctly put back into the Cassette

Problem

Error message: 2249D, 22D60

Reason

Stretched toothed belt in the IP transport unit left hand side, see Figure 13 / A

Solution

- Replace the toothed belt see Figure 13 / A.
- Replace the damaged gear, see Figure 13 / B.

8.4 Stretched toothed Belt in both IP Transport Units

Problem

Malfunction of the toothed belt

Reason

The light barrier does not run far enough into the toothed segment and thus the ACT. position is not detected. The carriage drives up to the mechanical stop, as a result the toothed belt can be stretched.

Solution

- Check the adjustment of the light barrier, if necessary bend the light barrier holder, see Figure 13 / C.
- Replace the toothed belt if stretched, see Figure 13 / A

8.5 IP remains behind the Scanner

Problem

The IP is not correctly placed into the cassette.

Solution

Home position of the suction bar (stop on the metal plate) is blocked by the vacuum hose or a cable.

Solution

Position the vacuum hose in such a way, that the suction bar can reach its nominal position, see Figure 13 / D.

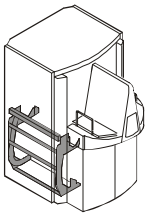
8.6 Robot (IP-Transport / Input-Output)

Problem

The robot doesn't reach its correct position.

Error codes

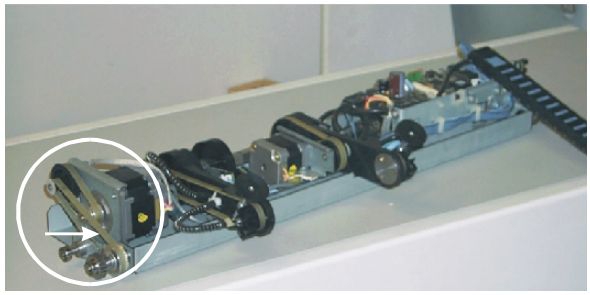
22A72; 22D40; 22D61;



Reason

crafty or damaged transportation-belt

(see figure right).



Solution

Installation of a modified robot:

CM+9.5145.6100.7 IP - Transport - Output

CM+9.5145.6500.7 IP - Transport - Input

What has been changed?

The robot carriage was revised completely to increase the reliability.

The alterations include in detail:

- a spring supported belt - fastener
- new belt-wheels
- beveled belt-disks

Recommendation

With appearance of the aforementioned Error - Codes it is strongly recommended to exchange the robot carriage completely.

To be able to perform the necessary adjustment cycle after having finished the installation, you need the new software-version COP_1215.

COP_1111 does not offer the adjustment cycle.

Order-No. COP_1215: CM+9.5145.1050.3

Scope of Delivery

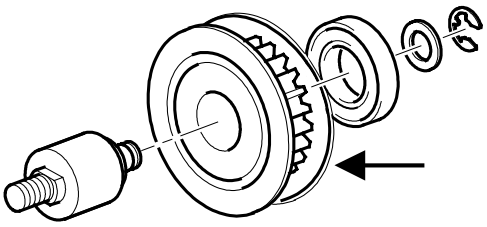
- 1x robot complete CM+9.5145.6100.5 IP - Transport - Output **or** CM+9.5145.6500.5 IP - Transport - Input
- 1x 3,5 " disk (Hardware Modification Floppy)
- 1x modification-instructions

9 Cassette Units

9.1 Cassette Transportation does not work

Problem

The toothed belt of the cassette clamp may possibly slip from the belt pulley.



Reason

The toothed belt has no hold when the humidity of the environment is too high.

Solution

An end plate (see arrow) preventing the toothed belt from slipping off has been attached to the axis.

Note

The new end plate is integrated ex works as of serial number (SN) **1102** and in the digitizers with SN **1068, 1088, 1094**.

The complete axis (including the new end plate) can be exchanged in machines with an earlier SN:

Order-No.: CM+9.5145.5165.1

9.2 Malfunction of the Light Barrier

Problem

Generation of sparks interruptions

Error codes

Service: 22871 or Service: 22866

Reason

Light shield lug is made of metal and is too narrow.

Solution

Replace the metal lugs (2 pieces) by plastic lugs CM+9.5145.5107.3

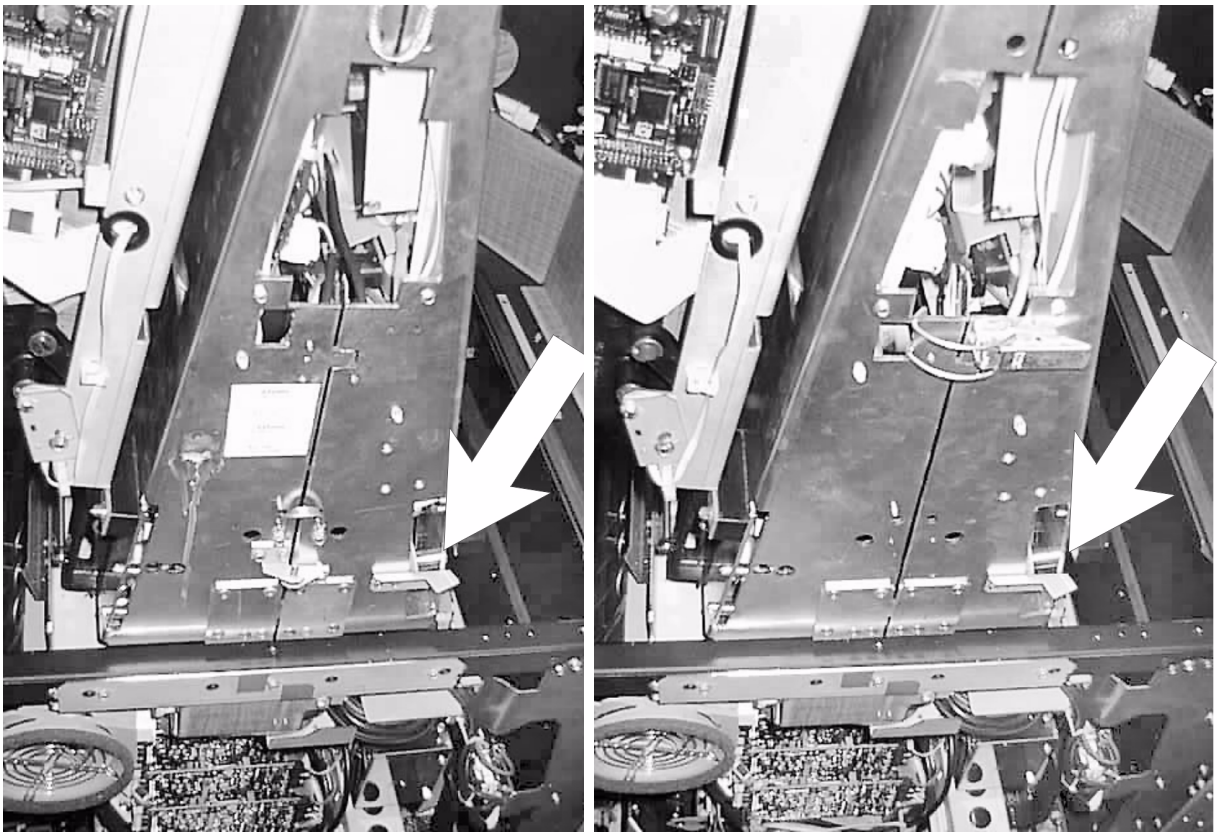


Figure 14

Replace the metal lugs (2 pieces) by plastic lugs CM+9.5145.5107.3

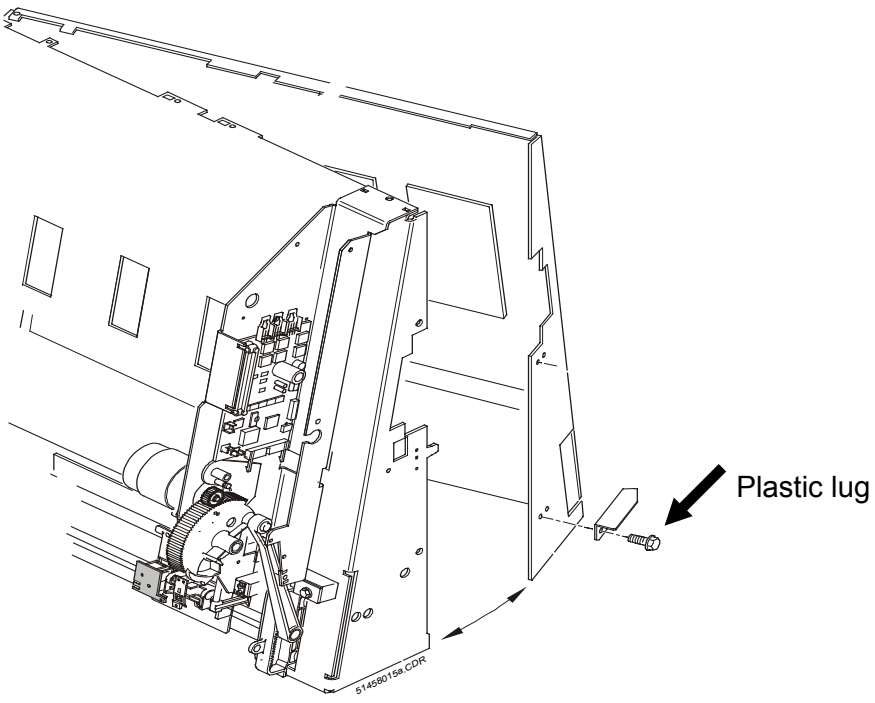
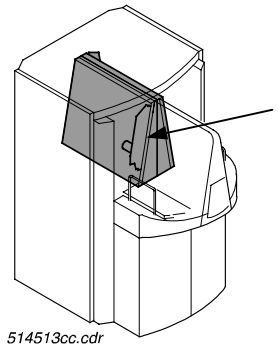


Figure 15

9.3 Installation of bigger Washers as Guide Discs

Affected machines:
5145/100 up to SN1194 (SN1191 OK)
5145/140 up to SN5068



Open up the cassette unit

and pull it out

Installation Instructions for the bigger Washers

Removing the motor plate

- Loosen the 4 nuts with the washers

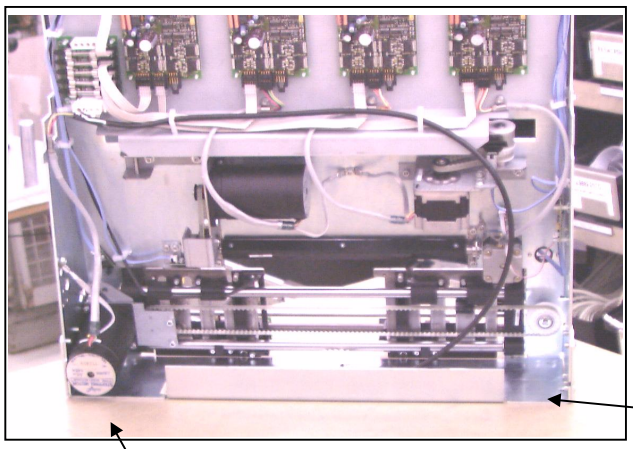


Figure 16

Replace the present washers A by the bigger washers B (CM+7.0324.3112.0) see Figure 17

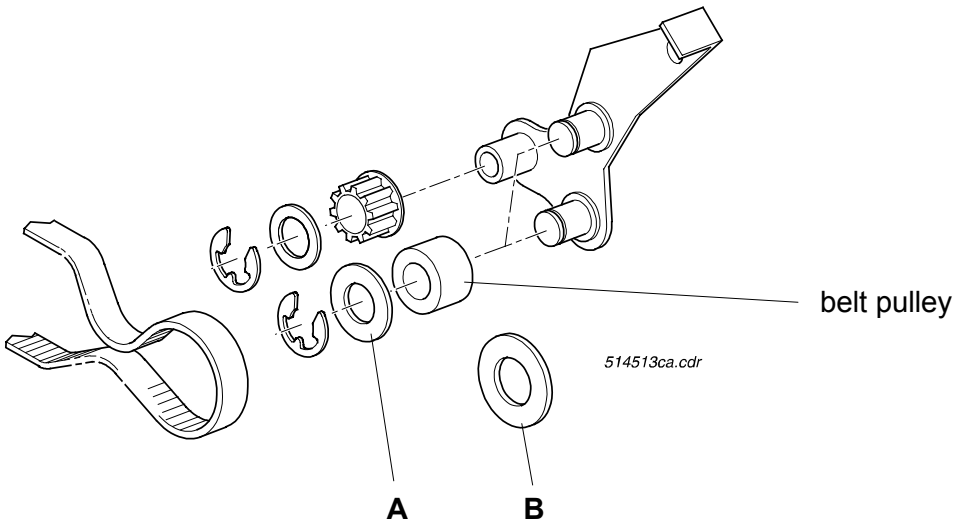


Figure 17

Installation

Upon installation consider the position of the belt (see arrows in Figure 3).

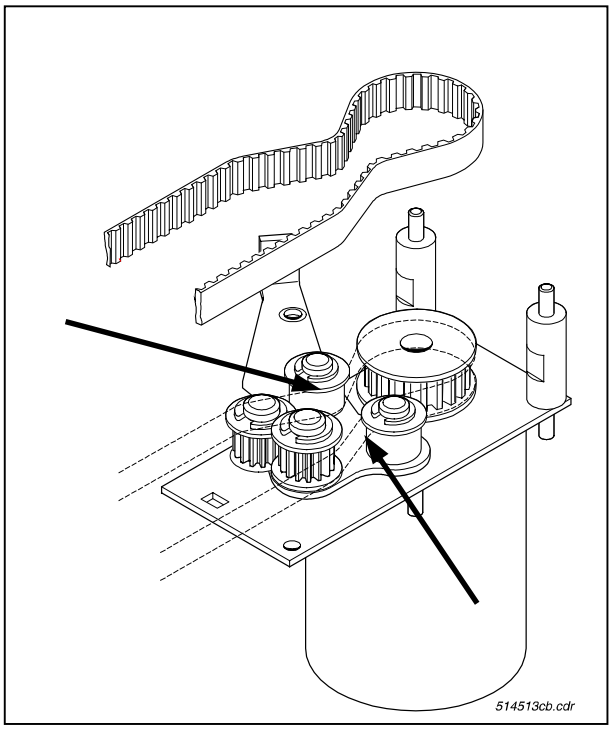


Figure 18

10 Input/Output Buffer

Problem

Broken housing of the ADC cassette

Reason

Sharp burr at the cassette lever of the output buffer

Solution

Check, whether there is a sharp burr at the lever of the output buffer.

File down the sharp burr at the top of the lever till it is smooth and rounded off (see illustration below).

Figure 19

11 Most frequently occurring Errors

The errors shown in the list are the most frequently occurring errors during product observation phase. The list will be updated regularly at DigiNet / MedNet. For additional information, or to add another error, please contact to MI_CSO.

Error-Code	Interpretation	Comments	On-going research
22D62	Input cassette-jam	1. Check input-buffer belt tension. 2. Check rotating-drive position optimization, see Section 6.6 (DD+DIS113.01E) 3. SW upgrade from COPA1215 to COP_1308, see Section 10 (DD+DIS121.01E)	✓
22D60	Cassette-jam occurred during output into output-buffer	1. IP-jam, cassette is not correctly closed: Check and adjust IP-position in cassette, see Section 6.6 (DD+DIS113.01E) 2. Error appears and there is no cassette blocked in output-buffer rollers: SW upgrade to COP_1308, see Section 10 (DD+DIS121.01E) 3. Transport-belt tension problem or broken belt: SW upgrade from COPA1215 to COP_1308, see Section 10 (DD+DIS121.01E) and if it still happens very often upgrade to advanced robots and adjust it, see Section 6.6 (DD+DIS113.01E) 4. Cassette-jam occurs only with 18 x 24 cm cassettes and cassette falls down: Exchange opener mechanism (CM+9.5145.5700.1)	
22D61	Postscan IP-jam, got no vacuum	1. Check together with user which formats cause the IP-jams, check also the IP-position when the IP-jam occurs: If IP is blocked in scan-rollers, then check scan-roller lift motor and exchange motor and board if necessary. 2. Check scan-roller surface: If there is dust on, clean the two pairs of rollers and both sides of the IP with ADC Cleaner. 3. Mechanical adjustment problem: Check carefully mechanics before starting any adjustment, see Section 6.6 (DD+DIS113.01E) 4. Check IP type (MD10 or MD30) and report to MI-CSO.	✓
22D64/ 22D69	Cassette-jam while opening the cassette, Input: 22D64 Output: 22D69	This error is only caused by module 1 **or** 2, not by both modules! 1. Cassette position during cassette-opening: Check and readjust opener if necessary. This problem occurs mostly with 18 x 24 cm and 24 x 30 cm formats. 2. Defective cable GS704/ST7 – GS726/ST1 (CM+9.5145.4518.0): Exchange the cable.	✓

Error-Code	Interpretation	Comments	On-going research
22D66	Image-plate was detected during self test / Cassette was removed by hand but not the image-plate	1. There is an IP in the scanner without a cassette: Remove the IP. 2. There is no IP but the error is permanent: Exchange vacuum-pump. (CM+9.5145.9310.0) 3. If exchanging vacuum-pump did not solve the problem: Exchange the solenoid valves.	✓
22D65	Erasure unit fan detected defective	1. Temperature safety switch problem: See Section 10 (DD+DIS311.00E) 2. Temperature safety switch modification was done, but error occurs again: Exchange erasure fan.	
22A1C/ 22A77	Prescan IP-jam	Electrostatic problem: Check Ground Cable on the IP-Transport Unit Prescan	
	Broken c-clips in scanner	To avoid breaking the clips while removing the scan-roller during a maintenance: See Section 6.5 (DD+DIS148.01E)	
	Digitizer is blocked without displayed error-code. Patient name is displayed and nothing happens. This problem occurs only when multiple cassettes have been introduced in the input-buffer. One cassette is opened in output-cassette-unit with IP inside, the other is opened in input-cassette-unit without IP in.	Defective vacuum-pump: Exchange the vacuum-pump (CM+9.5145.9310.0)	